

## CLAIMS

I claim:

1. . A stage lighting apparatus comprising:

a lamp housing;

the lamp housing comprising

a lamp,

a first light valve and a second light valve;

a first set of first image data;

the first set of first image data comprising

a first set of first separate color data for operation of a first separate colored image,

and a second set of second separate color data for operation of a second separate colored image,

wherein the lamp, the first light valve and the second light valve cooperate to project a first projected image comprised of the first separate colored image and the second separate colored image;

wherein the first projected image is created by applying a swap function to the first set of the first image data;

and wherein the swap function causes the first set of the first separate color data intended for operation of the first separate colored image to be redirected for operation of the second separate colored image.

2. The stage lighting apparatus of claim 1 further comprising

an image control and wherein

the application of the swap function is applied by the image control.

3. The stage lighting apparatus of claim 1 further comprising

a control system and wherein

the application of the swap function is applied by the control system.

4. The stage lighting apparatus of claim 3 further comprising

a communications port; and

wherein the communications port receives a command to cause the control system to apply the swap function.

5. The stage lighting apparatus of claim 3 further comprising

an input keypad and wherein

the control system receives an input from the input keypad to cause the swap function to be applied.

6. A stage lighting apparatus comprising:

a base;

a yoke;

a first set of first image data;

and a lamp housing

the lamp housing comprising

a lamp;

and a first light valve;

wherein the lamp and the first light valve cooperate to project a first image and a second image and wherein the second image is created by applying a swap function to the first set of first image data

and wherein the swap function causes the first set of first image data intended for operation of a first separate colored image to be redirected for operation of the second separate colored image.

7. The stage lighting apparatus of claim 6 further comprising  
an image control and wherein

the application of the swap function is applied by the image control.

8. The stage lighting apparatus of claim 6 further comprising  
a control system and wherein

the application of the swap function is applied by the control system.

9. The stage lighting apparatus of claim 8 further comprising  
a communications port; and

wherein the communications port receives a command to cause the control system to apply the swap function

10. The stage lighting apparatus of claim 8 further comprising  
an input keypad and wherein

the control system receives an input from the input keypad to cause the swap function to be applied.

11. The stage lighting apparatus of claim 6 wherein

applying the swap function to the first set of first image data to create the second image visually provides a second image with a similar layout as the first image but with a different color scheme.

12. A stage lighting system comprising:

a central controller;

a communications system;

a first set of first image data;

and a first stage lighting apparatus comprising

a first base;

a first yoke; and

a first lamp housing comprising

a first lamp;

and a first light valve;

wherein the first lamp and the first light valve cooperate to form a first projected image and a second projected image;

wherein the first projected image and the second projected image are comprised of first and second separate colored images;

wherein the second projected image is created by applying a swap function to the first set of first image data

and wherein the swap function causes a component of the first set of first image data intended for operation of a first separate colored image to be redirected for operation of the second separate colored image

and further comprising

a second stage lighting apparatus comprising

a second base;

a second yoke; and

a second lamp housing comprising

a second lamp;

and a second light valve wherein the second lamp and the second light valve cooperate to project a third image and a fourth image and wherein the fourth image is created by applying a swap function to the first set of first image data;

and wherein the swap function causes a component of the first set of first image data intended for operation of a third separate colored image to be redirected for operation of a fourth separate colored image

13. A method of creating a projected second image from a first set of first image data for projection by an image projection lighting device the method comprising:

applying a swap function to the first set of first image data; and

wherein the swap function causes a first component of the first set of first image data intended for operation of a first separate colored image to be redirected for operation of a second separate colored image and the second separate colored image is a component of the projected second image.

14. The method of claim 13 wherein

the swap function further causes a second component of the first set of first image data intended for operation of a second separate colored image to be redirected for operation of a third separate colored image and the second and third separate colored images are components of the projected second image.

15. The method of claim 13 wherein

the swap function is applied to the first set of first image data when a command is received by the image projection lighting device over a communications system connected between the image projection lighting device and a central controller.

16. The method of claim 13 wherein

the first set of first image data is stored in the memory of a central controller and the swap function is applied to the first set of image data by the central controller.

17. The method of claim 16 wherein

the application of the swap function is initiated by an operator of the central controller inputting a command into an input entry device of the central controller

18. A method comprising

projecting a first projected image from an image projection lighting device, wherein the first projected image is determined by a first set of first image data;

applying a swap function to the first set of first image data;

projecting a second projected image from the image projection lighting device created from the first set of first image data after the swap function has been applied

wherein the swap function causes a first component of the first set of first image data used to provide operation of a first separate colored image of the first projected image to be redirected for operation of a second separate colored image of the second projected image.

19. The method of claim 18 wherein

the step of applying the swap function to the first set of first image data to create the second projected image visually provides a second projected image with a similar layout as the first projected image but with a different color scheme.

20. The method of claim 18 wherein

the step of applying the swap function to the first set of first image data is initiated when a command is received by the image projection lighting device over a communications system connected between the image projection lighting device and a central controller.

21. The method of claim 18 wherein

the first set of first image data is stored in a memory of a central controller and the swap function is applied to the first set of first image data by the central controller.

22. The method of claim 21 wherein

the step of applying the swap function is initiated by an operator of the central controller inputting a command into an input entry device of the central controller

23 The method of claim 19 wherein

the first and second projected images are projected onto an airborne particulate created by a theatrical fog or smoke machine.

24. A method of creating a first set of second image data from a first set of first image data used for projection of images by an image projection lighting device the method comprising:

applying a swap function to the first set of first image data stored in a memory of the image projection lighting device to create the first set of second image data;

wherein the swap function causes a first component of the first set of first image data intended for operation of a first separate colored image of the image projection lighting device to be redirected for the intended operation of a second separate colored image of the image projection lighting device; and

wherein after creating the first set of second image data the first set of second image data is stored in a memory of the image projection lighting device

25. The method of claim 24 wherein

the step of applying the swap function is initiated by a command received over a communications system connected to the image projection lighting device.

26. A method of creating a first set of second image data from a first set of first image data stored in a memory of a central controller used to communicate commands to a plurality of image projection lighting devices the method comprising:

applying a swap function to the first set of first image data to create a first set of second image data;

wherein the swap function causes a first component of the first set of first image data intended for operation of a first separate colored image of a first image projection lighting device to be redirected for the operation of a second separate colored image of the first image projection lighting device; and

wherein the first set of second image data is stored in the memory of the central controller.

27. The method of claim 26 wherein



the step of applying the swap function is initiated by an operator of the central controller inputting a command into the central controller